

## UDOT Minimum Sampling and Testing Requirements

*Revised April '07*

### ***Specification - Material: 02056 Embankment, Borrow and Backfill***

*02056 Embankment, Embankment for Bridge, Granular Borrow, and Backfill Placements*

**Assurance:** Soil Classification

**Reference:** AASHTO M 145

**Lot Size:** Source / soil type or each 20,000 cubic yards or 30,000 tons thereafter.

**Frequency per Lot:** One per lot

**Point of Acceptance:** Grade after processing prior to compaction

**Sampling Reference:** AASHTO T 2

**Report/Form:** Weekly Form 348

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*02056 Free Draining Granular Backfill*

**Assurance:** Sieve analysis (gradation)

**Reference:** AASHTO T 27 / T 11.

**Lot Size:** Daily Placement

**Frequency per Lot:** One per 500 tons or 350 cubic yards

**Point of Acceptance:** Grade after processing, prior to compaction

**Sampling Reference:** AASHTO T 2

**Report/Form:** Weekly Form 348

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*02056 Embankment, Embankment for Bridge, Granular Borrow, and Backfill Placements*

**Assurance:** Laboratory Maximum Dry Density and Optimum Moisture for Density Standard

**Reference:** AASHTO T 99 Method D / AASHTO T 180 Method D for A-1 soils.

**Lot Size:** Source / soil type and each 20,000 cubic yards or 30,000 tons thereafter.

**Frequency per Lot:** One per 20,000 cubic yards or 30,000 tons for each layer.

**Point of Acceptance:** Grade after processing, prior to compaction

**Sampling Reference:** AASHTO T 2

**Report/Form:** Weekly Form 348

<b><i>Specification - Material: 02056 Embankment, Borrow and Backfill</i></b>
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*02056 Embankment, Granular Borrow, and Subgrade Placements*

**Assurance:** In-place density

**Reference:** AASHTO T 310

**Lot Size:** A lot equals material placed to line and grade and compacted in one production day

**Frequency per Lot:** A lot is divided into equal sublots not to exceed 5000 square yards per lift, 15,000 square yards in cut sections. A minimum of one randomly located determination per sublot

**Point of Acceptance:** Grade after Compaction

**Sampling Reference:** MOI 8-984

**Report/Form:** Weekly Form 348

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*02056 Embankment for Bridge*

**Assurance:** In-place density

**Reference:** AASHTO T 310

**Lot Size:** One foot lift

**Frequency per Lot:** Six randomly located determinations per one foot lift. Two of the six determinations must be within two feet of the outside perimeter.

**Point of Acceptance:** Grade after Compaction

**Sampling Reference:** MOI 8-981 / MOI 8-984

**Report/Form:** Weekly Form 348

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*02056 Backfill Placements*

**Assurance:** In-place density

**Reference:** AASHTO T 310

**Lot Size:** A lot equals 1000 square yards or less and not more than one pipe culvert or small structure.

**Frequency per Lot:** Four randomly located determinations per lot, minimum one determination per lift. Placements less than 10 cubic yards or 15 tons, test as directed by the engineer.

**Point of Acceptance:** Grade after Compaction

**Sampling Reference:** MOI 8-984

**Report/Form:** Weekly Form 348

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<b><i>Specification - Material: 02056 Embankment, Borrow and Backfill</i></b>
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**Assurance:** Compaction - Material that is too rocky to apply the correction for coarse particles: 30% cumulatively retained on the 3/4" sieve

**Reference:** AASHTO T 224

**Lot Size:**

**Frequency per Lot:** Compaction is visually inspected. Document method and equipment used for placement, appearance of gradation uniformity, moisture content, compactive effort, and final appearance.

**Point of Acceptance:** Grade

**Sampling Reference:**

**Report/Form:** Weekly Form 348

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**Assurance:** Visual Acceptance of very small quantities of materials

**Reference:** Acceptance is limited to material being furnished from sources found satisfactory under normal sampling and testing procedures.

**Lot Size:** Not to exceed 200 cubic yards or 300 tons per day or 1000 cubic yards or 1500 tons per project

**Frequency per Lot:** One report for each day material is accepted

**Point of Acceptance:** Grade

**Sampling Reference:**

**Report/Form:** Visual Inspection Report

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